

WHAT IS CLAIMED IS:

1 1. A system for installing suspended ceiling comprising the following
2 steps:

3 a. creating main joists for the suspended ceiling by securing j-
4 shaped main subcomponents together back to back and end to end
5 so that joints formed between the main subcomponents on one side
6 of the main joist are staggered with respect to the joints formed
7 between the main subcomponents on the other side of the main
8 joist, and creating branch joists for the suspended ceiling by
9 securing pairs of j-shaped branch subcomponents together back to
10 back with their ends flush with each other to form each branch joist.

11 b. suspending the main joists from the purlins of a building
12 employing pairs of brackets that attach on either end of a rod so
13 that an upper bracket of each pair of brackets attaches to one of
14 the purlins and a lower bracket of the pair of brackets attaches to
15 one of the main joists and the length of rod located between the
16 pair of brackets adjusts to a desired length to allow the main joists
17 to be suspended with the main joists level, parallel with each other,
18 and spaced a desired distance apart,

19 c. securing the branch joists approximately perpendicular to
20 the main joists and a desired distance apart from each other so that
21 the two ends of each branch joist secure to adjacent main joists
22 and so frames are formed by the main and branch joists for
23 supporting ceiling panels.

24 d. placing ceiling panels in each frame formed by the main and
25 branch joists.

1 2. A system for installing suspended ceiling according to Claim 1
2 further comprising the following step that is performed between
3 step c and step d:

4 e. securing branch subcomponents at the ends of the main
5 joists to finish forming frames at the sides of the suspended ceiling.

1 3. A system for installing suspended ceiling according to Claim 1
2 further comprising the following step that is performed before step
3 d:

4 f. suspending the branch joists from the purlins of a building
5 employing additional pairs of brackets that attach on either end of a
6 rod so that an upper bracket of each pair of brackets attaches to
7 one of the purlins and a lower bracket of the pair of brackets
8 attaches to one of the branch joists and the length of rod located
9 between the pair of brackets adjusts to a desired length to allow the
10 branch joists to be suspended with the branch joists level, parallel
11 with each other, and spaced a desired distance apart.

1 4. A system for installing suspended ceiling according to Claim 1
2 wherein the main joists are spaced approximately 8 feet apart and
3 the branch joists are spaced approximately 4 feet apart.